

## A. New Hope Creek Corridor

### 5. STAGECOACH ROAD BOTTOMLANDS

#### SITE DESCRIPTION

**County:** Durham  
**Quad:** Southwest Durham  
**Significance:** Zoological: County (DURH 1); Botanical: 1 - County  
**Landscape Function:** Zoological: Medium (DURH 1)  
**Boundary Integrity:** High  
**Level of Threat:** Zoological: Low; Botanical: 2 - Low  
**Protection Status:** Medium  
**Community Viability:** Zoological: Medium (DURH 1); Botanical: 3 - High

#### SUMMARY OF SIGNIFICANT FEATURES:

1. Links the New Hope Creek Wildlife Corridor to the gamelands around the northern end of Jordan Lake.
2. Historic location for several species of regionally rare species, including the flier sunfish (*Centrarchus macropterus*), bluespotted sunfish (*Enneacanthus gloriosus*) and swamp darter (*Etheostoma fusiforme*).
3. Provides habitat for several species of animals requiring large tracts of bottomland hardwoods.

#### LANDSCAPE FEATURES:

Extending approximately 1.25 miles from Stage Coach Road to Jordan Lake, this tract of bottomland is the least fragmented of any section along New Hope Creek. No powerlines or sewerlines divide it, nor are there any subimpoundments downstream from Stage Coach Road. At its lower end, below the confluence with Little Creek, the bottomland expands to 1.3 miles, and the forests on its slopes are confluent with the gamelands surrounding the northern end of Jordan Lake. Continuous forested passages connect this area with other large tracts of undeveloped land, including New Hope Point, the Morgan Creek Bottomlands and the Northeast Creek Bottomlands, all described in the Chatham County Inventory (Hall and Boyer, 1993).

As is true for the other tracts of Triassic Basin bottomlands along New Hope Creek, the main channel is highly meandering and backwaters, oxbows, side channels and floodplain pools are present over the entire width of the floodplain. Although the causeways and subimpoundments upstream greatly impede the downstream flow of floodwaters, this tract is still flooded from slope to slope fairly frequently. Water marks are visible on the trunks of trees throughout the floodplain, and old pieces of styrofoam, plastic soft drink bottles and other flood

debris commonly wash up along the base of the abandoned railroad grade that runs along the eastern slope above the floodplain. During flood events, this tract is essentially an arm of Jordan Lake. In contrast to the subimpoundments, however, this tract dries up quickly enough to support grasses and other herbaceous species, at least in small patches.

#### DESCRIPTION OF THE FAUNA:

Several predominantly Coastal Plain species have been recorded in the lower reaches of New Hope Creek, including the flier sunfish (*Centrarchus macropterus*), bluespotted sunfish (*Enneacanthus gloriosus*) and swamp darter (*Etheostoma fusiforme*) (Menhinick, 1991). As mentioned for the New Hope Subimpoundments, however, the poor water quality in this reach may have reduced or eliminated these species, despite the continued presence of their preferred habitat of old oxbows and sluggishly flowing streams. Native mussels are completely missing from this section, and the absence of even the Asiatic clam (*Corbicula fluminea*) is a particularly strong indication that there are chronic water problems in this reach.

Another important factor that may contribute to the decline of the distinctive small fish fauna in this part of the creek is the frequent backup of water from Jordan Lake. This opens up the entire basin, including otherwise isolated oxbows and pools, to the depredations of game fish stocked at Jordan Lake, including largemouth bass, white crappie and channel catfish (Alvin Braswell, pers. comm.). In this reach, the presence of the subimpoundment dam above Stage Coach Road may exacerbate this problem by blocking the escape of smaller fish upstream into shallower waters.

While more study is needed to confirm the effect on the fish native to this bottomland, the impact on bottomland salamanders is quite obvious. None of the pools surveyed in three trips to this bottomland contained larvae of either marbled salamanders (*Ambystoma opacum*) or spotted salamanders (*Ambystoma maculatum*), both of which would be expected to occur in this habitat. The presence of mosquitofish (*Gambusia affinis*) in nearly all of these pools provides a clear explanation for their absence. In recent years Dave Owen has found numerous adults of both species of salamanders on the banks in this area.

Under these circumstances, four-toed salamanders (*Hemidactylium scutatum*) are even less likely to occur, despite their presence upstream (see New Hope Creek Bottomland Forest) and the existence of many of the moss-banked pools they need for nesting. About the only amphibians that can be expected to remain in the area are the five species of frogs and toads that were observed (plus a few that weren't seen). The larvae of these species are either more resistant to fish predation or can survive in the shallow pools located along the floodway fringe (*Ambystoma* larvae, in contrast, require deeper and longer-lasting pools).

The most significant component of the fauna in this bottomland is the avian community, which in contrast to the salamander community, is largely intact. Only the Kentucky warbler (*Oporornis formosus*) is missing from the group of typical bottomland species. This ground-nester may be absent either directly as a result of flooding or indirectly due to the poor quality of the herbaceous ground cover.

Eight other species of warblers were recorded, however, including the prothonotary warbler (*Protonotaria citrea*), which is highly characteristic of mature hardwood swamp forests and the American redstart (*Setophaga ruticilla*), which also requires wide tracts of bottomland hardwoods (although not necessarily mature stands). Along with the prothonotary warbler, five other species were recorded that need large trees to accommodate their nests: red-shouldered hawk (*Buteo lineatus*), barred owl (*Strix varia*), hairy woodpecker (*Picoides villosus*), pileated woodpecker (*Dryocopus pileatus*) and white-breasted nuthatch (*Sitta carolinensis*). The red-shouldered hawk, barred owl and pileated woodpecker are also among the best indicators of the extensive nature of this bottomland forest.

Evidence for the occurrence of other wide-ranging species, particularly bobcat (*Lynx rufus*) and wild turkey (*Meleagris gallopavo*), was not obtained, however. Both of these species were expected in this tract, based on their presence along Morgan Creek and other parts of the gamelands around the northern rim of Jordan Lake (Sather and Hall, 1988; Hall and Boyer, 1993). Although more field work is needed to verify this finding, the absence of these species throughout most of the New Hope Bottomlands appears to be quite real. Possible explanations include the frequent flooding of this tract coupled with the lack of large areas of undisturbed upland habitats adjoining the bottomlands, or the significant habitat fragmentation that has resulted from the construction of I-40 and the waterfowl subimpoundments.

#### DESCRIPTION OF THE FLORA:

The forest in these bottomlands is composed primarily of hardwoods, with most trees ranging between 10" - 15" in diameter; large oaks over 3' in diameter are also present. Loblollies predominate on the slopes, and there are scattered stands of mature loblollies (2' dbh) in parts of the floodplain. Old drainage ditches, remnant strands of barbed wire, ancient oaks with spreading basal branches and persimmons that reach the canopy in a few areas all indicate that large parts of this tract were once cleared, probably for pasture. Rotted-out stump holes are also common over much of the area, evidence that the area was selectively timbered for pine in the recent past. In 1995 and 1996, selective logging was done along the creek as "wild turkey restoration habitat."

Spring wildflowers are present in fair numbers on the higher areas of the floodplain and along the creek banks. The oxbows, side channels and pools support the usual emergent species, lizard's tail (*Saururus cernuus*), arrow-leaf (*Peltandra virginica*), and duck potato (*Sagittaria latifolia*).

#### PROTECTION STATUS AND THREATS:

The entire bottomland and lower adjoining slopes are owned by the Corps of Engineers and are leased to the NC Wildlife Resources Commission as gamelands. Although this property is maintained for wildlife, most of the active management is directed towards only a small number of game animals, particularly deer, wood duck, quail and other species that benefit from the creation of openings. Timbering, including clearcuts, are considered consistent with these management goals, even though it reduces the value of the habitat for the majority of the non-game species native to these bottomlands.

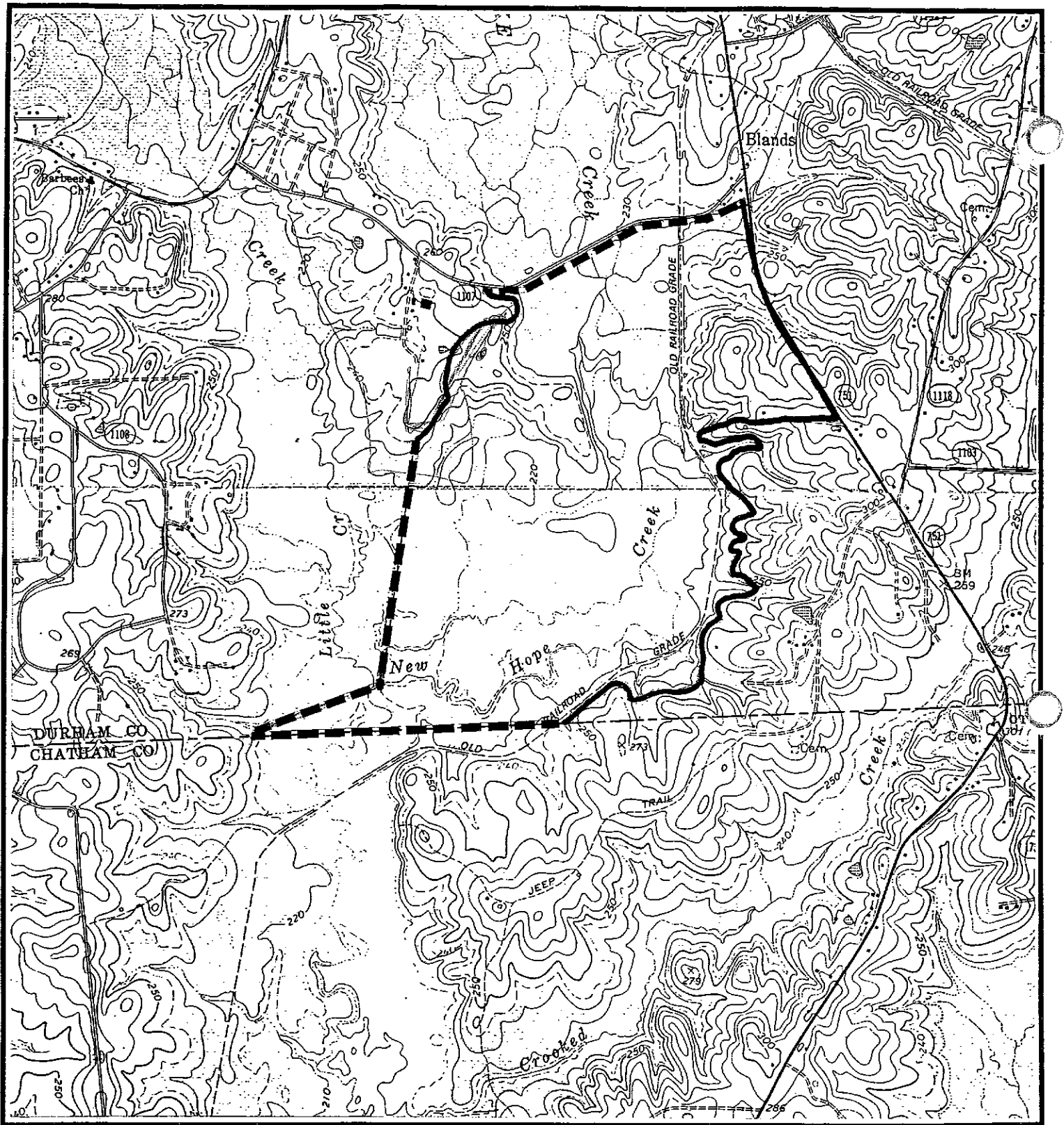
With the exception of the gameland area on New Hope Point, which adjoins the New Hope Floodplain to the west below the Chatham County line, the surrounding uplands are all privately owned. Although most of this countryside is still rural, the growing recreational use of Jordan Lake along with the increasing urbanization of this region spurred by the Research Triangle Park will lead to more intense development of the area.

#### **CONSERVATION RECOMMENDATIONS:**

There is probably little that can be done to restore the natural hydrology of this particular tract, but the Corps and NC Wildlife Resources Commission should be urged to manage the area for all of its native wildlife, not just the game species.

The main conservation effort should be to preserve upland buffers along the adjoining areas of private lands. These will become increasingly important as the area becomes more developed, particularly given the frequent flooding that inundates this tract from slope to slope. Conservation easements are probably the most suitable means of assuring protection for the buffer areas; farming and selective timber harvesting could be compatible land uses within the easements, provided that runoff into the bottomlands is controlled.

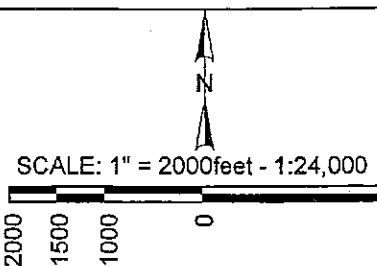




## DURHAM COUNTY MERGED INVENTORY

### Stage Coach Road Bottomlands

- SITE BOUNDARY
- ADJACENT TO OTHER SITE(S)
- USGS QUAD: SOUTHWEST DURHAM & GREEN LEVEL



## ZOOLOGICAL SURVEY REPORT

### I. LOCATION

**USGS Quad:** Southwest Durham, Green Level

**Site Boundaries:** Primary boundary includes bottomlands and adjoining slopes on both sides of New Hope Creek, from the subimpoundment at Stagecoach Road to Jordan Lake.

Secondary boundaries include woodlands and disturbed habitats on the adjoining uplands.

**Relationship to Previous Inventory Sites:** Not included in previous inventories

### II. TERRESTRIAL HABITATS

#### NHP Element Species:

None

#### Regionally Rare Species:

None

#### Indicator Guilds:

##### Forest Interior Species:

*Buteo lineatus*  
*Coccyzus americanus*  
*Strix varia*  
*Picoides villosus*  
*Dryocopus pileatus*  
*Empidonax virescens*  
*Poliophtila caerulea*  
*Hylocichla mustelina*  
*Vireo flavifrons*  
*Vireo olivaceus*  
*Parula americana*  
*Setophaga ruticilla*  
*Protonotaria citrea*  
*Seiurus aurocapillus*  
*Seiurus motacilla*  
*Wilsonia citrina*  
*Piranga olivacea*  
*Bufo americanus*  
*Hyla chrysoscelis*  
*Pseudacris triseriata*  
*Anthocharis midea*  
*Actias luna*

##### Forest/Edge Species:

*Didelphis virginiana*  
*Scalopus aquaticus*  
*Sciurus carolinensis*  
*Peromyscus leucopus*  
*Ochrotomys nuttalli*  
*Procyon lotor*  
*Odocoileus virginianus*  
*Butorides striatus*  
*Colinus virginianus*  
*Melanerpes erythrocephalus*  
*Melanerpes carolinus*  
*Picoides pubescens*  
*Colaptes auratus*  
*Myiarchus crinitus*  
*Cyanocitta cristata*  
*Parus carolinensis*  
*Parus bicolor*  
*Sitta carolinensis*  
*Thryothorus ludovicianus*  
*Dendroica dominica*  
*Dendroica pinus*  
*Cardinalis cardinalis*  
*Pipilo erythrophthalmus*  
*Carduelis tristis*  
*Bufo woodhousei*

*Erynnis juvenalis*  
*Papilio glaucus*  
*Celastrina ladon*

##### Long-Distance Migrants:

*Coccyzus americanus*  
*Empidonax virescens*  
*Myiarchus crinitus*  
*Poliophtila caerulea*  
*Hylocichla mustelina*  
*Vireo flavifrons*  
*Vireo olivaceus*  
*Setophaga ruticilla*  
*Protonotaria citrea*  
*Seiurus aurocapillus*  
*Seiurus motacilla*  
*Wilsonia citrina*  
*Piranga olivacea*

##### Low-nesting Species:

*Colinus virginianus*  
*Seiurus aurocapillus*  
*Seiurus motacilla*  
*Wilsonia citrina*  
*Cardinalis cardinalis*  
*Pipilo erythrophthalmus*

##### Big-tree/Snag Species:

*Buteo lineatus*  
*Strix varia*  
*Picoides villosus*  
*Dryocopus pileatus*  
*Sitta carolinensis*  
*Protonotaria citrea*

##### Wide-ranging Species:

*Buteo lineatus*  
*Strix varia*  
*Dryocopus pileatus*

##### Carnivores/Raptors:

*Procyon lotor*  
*Buteo lineatus*  
*Strix varia*

##### Human-sensitive Species:

*Colinus virginianus*

##### Non-forest Species:

*Corvus brachyrhynchos*  
*Quiscalus quiscula*

##### Invaders:

*Canis familiaris*

**Habitat Features:**

**Total Site:** 760 acres

**Size of Primary Area:** 688 acres

**Habitat Heterogeneity:** Moderate; east- and west-facing slopes; ravines; oxbows and other floodplain pools

**Forest Structural Diversity:** Moderate; well-developed canopy and subcanopy; shrub layer moderate -- thickets of cane and privet in some areas; herb layer poor

**Water Sources:** Perennial stream; intermittent tributaries; floodplain pools

**Amphibian Breeding Sites:** Frog choruses observed in small floodplain pools, but *Ambystoma* larvae were not observed; most pools in the floodplain contain *Gambusia*.

**Denning Sites:** Slopes bordering floodplain; beaver lodge observed at one site.

**Big Trees/Large Cavities:** Big trees are scattered throughout the floodplain.

**Snags and Logs:** Moderately present; some are large enough to allow passage over the creek.

**Mast-producing Species:** Oaks, hickories, maples

**Nectar Sources:** Marginal

**Landscape Features:**

**Refuge Shape:** Broadly oblong, following floodplain and adjoining slopes

**Refuge Integrity/Fragmentation:** Old railroad grade provides access along eastern side.

**Proximity to Other Refuges/Existence of Corridors:** Contiguous downstream with other tracts of New Hope Gamelands located at north end of Jordan Lake, including a large undeveloped upland peninsula (New Hope Point); contiguous upstream, except for road-crossings and subimpoundments, with other large tracts of undeveloped riparian forest in the New Hope and Third Fork Creek floodplains

**Threats and Disturbances:**

**Evidence of Past Land Uses:** Old barbed-wire fencing; drainage ditches; remnant pasture trees (including persimmons reaching into the canopy layer)

**Level of Human Intrusion:** Low to moderate; area is used as Gamelands, and fishing is frequent at Stagecoach Road; old railroad grade is used by hikers, ORV's and hunters.

**Distance to Nearest Road:** Site is bounded on the north by Stagecoach Road; rural roads occur on adjoining uplands to both east and west of the floodplain.

**Potential for Habitat Loss or Fragmentation:** Moderate; Corps lands are subject to periodic timbering; clearing for wildlife food plots is a frequently used management tool of NCWRC, which leases this area as gameland.

**Potential for Changes in Adjoining Land Use:** Uplands adjoining the floodplain are still mostly rural but are likely to be intensively developed.



New Hope Creek Corridor  
A.5. Stagecoach Road Bottomlands

**Species Records:**

<i>Didelphis virginiana</i> (92-04-10/t)	<i>Colaptes auratus</i> (94-02-13/o)	<i>Seiurus aurocapillus</i> (92-06-18/o)
<i>Scalopus aquaticus</i> (92-06-18/s)	<i>Dryocopus pileatus</i> (94-02-13/s)	<i>Seiurus motacilla</i> (92-04-10/o)
<i>Scalopus aquaticus</i> (94-02-13/s)	<i>Empidonax virescens</i> (92-06-18/o)	<i>Wilsonia citrina</i> (92-06-18/o)
<i>Sciurus carolinensis</i> (92-04-10/t)	<i>Myiarchus crinitus</i> (92-06-18/o)	<i>Piranga olivacea</i> (92-06-18/o)
<i>Sciurus carolinensis</i> (92-06-18/t)	<i>Cyanocitta cristata</i> (92-06-18/o)	<i>Cardinalis cardinalis</i> (92-06-18/o)
<i>Sciurus carolinensis</i> (94-02-13/n)	<i>Cyanocitta cristata</i> (94-02-13/o)	<i>Pipilo erythrophthalmus</i> (92-06-18/o)
<i>Castor canadensis</i> (92-06-18/s)	<i>Corvus brachyrhynchos</i> (92-06-18/o)	<i>Quiscalus quiscula</i> (92-06-18/o)
<i>Peromyscus leucopus</i> (92-06-18/t)	<i>Parus carolinensis</i> (92-04-10/o)	<i>Carduelis tristis</i> (92-06-18/o)
<i>Ochrotomys nuttalli</i> (94-02-13/n)	<i>Parus carolinensis</i> (92-06-18/o)	<i>Trachemys scripta</i> (92-06-18/o)
<i>Ondatra zibethicus</i> (92-06-18/t)	<i>Parus carolinensis</i> (94-02-13/o)	<i>Bufo americanus</i> (92-04-10/o)
<i>Canis familiaris</i> (92-06-18/t)	<i>Parus bicolor</i> (92-04-10/o)	<i>Bufo woodhousei</i> (92-06-18/o)
<i>Procyon lotor</i> (92-04-10/t)	<i>Parus bicolor</i> (92-06-18/o)	<i>Hyla chrysoscelis</i> (92-06-18/o)
<i>Procyon lotor</i> (92-06-18/t)	<i>Parus bicolor</i> (94-02-13/o)	<i>Pseudacris triseriata</i> (94-02-13/o)
<i>Odocoileus virginianus</i> (92-04-10/t)	<i>Sitta carolinensis</i> (92-04-10/o)	<i>Rana clamitans</i> (92-04-10/o)
<i>Odocoileus virginianus</i> (92-06-18/o)	<i>Sitta carolinensis</i> (92-06-18/o)	<i>Rana clamitans</i> (92-06-18/o)
<i>Odocoileus virginianus</i> (94-02-13/s)	<i>Sitta carolinensis</i> (94-02-13/o)	<i>Rana clamitans</i> (94-02-13/t)
<i>Butorides striatus</i> (92-06-18/o)	<i>Thryothorus ludovicianus</i> (92-04-10/o)	<i>Erynnis juvenalis</i> (92-04-10/o)
<i>Buteo lineatus</i> (92-06-18/o)	<i>Thryothorus ludovicianus</i> (92-06-18/o)	<i>Papilio glaucus</i> (92-04-10/o)
<i>Buteo lineatus</i> (94-02-06/o)	<i>Thryothorus ludovicianus</i> (94-02-13/o)	<i>Papilio glaucus</i> (92-06-18/o)
<i>Colinus virginianus</i> (92-06-18/t)	<i>Regulus satrapa</i> (94-02-13/o)	<i>Anthocharis midea</i> (92-04-10/o)
<i>Coccyzus americanus</i> (92-06-18/o)	<i>Regulus calendula</i> (94-02-13/o)	<i>Celastrina ladon</i> (92-04-10/o)
<i>Strix varia</i> (92-06-18/t)	<i>Poliophtila caerulea</i> (92-04-10/o)	<i>Actias luna</i> (92-06-18/r)
<i>Melanerpes erythrocephalus</i> (92-04-10/o)	<i>Poliophtila caerulea</i> (92-06-18/o)	<i>Dromogomphus spinosus</i> (92-06-18/o)
<i>Melanerpes carolinus</i> (92-04-10/o)	<i>Hylocichla mustelina</i> (92-06-18/o)	<i>Epiaschna heros</i> (92-06-18/o)
<i>Melanerpes carolinus</i> (92-06-18/o)	<i>Vireo flavifrons</i> (92-06-18/o)	<i>Erythemis simplicicollis</i> (92-06-18/o)
<i>Melanerpes carolinus</i> (94-02-13/o)	<i>Vireo olivaceus</i> (92-06-18/o)	<i>Libellula incesta</i> (92-06-18/o)
<i>Sphyrapicus varius</i> (94-02-13/o)	<i>Parula americana</i> (92-04-10/o)	<i>Libellula vibrans</i> (92-06-18/o)
<i>Picoides pubescens</i> (92-04-10/o)	<i>Parula americana</i> (92-06-18/o)	<i>Pachydiplax longipennis</i> (92-06-18/o)
<i>Picoides pubescens</i> (92-06-18/o)	<i>Dendroica dominica</i> (92-04-10/o)	
<i>Picoides pubescens</i> (94-02-13/o)	<i>Dendroica pinus</i> (92-06-18/o)	
<i>Picoides villosus</i> (92-06-18/o)	<i>Setophaga ruticilla</i> (92-06-18/o)	
	<i>Protonotaria citrea</i> (92-06-18/o)	

**Additional Survey Needs:**

Survey of terrestrial species is relatively complete. Evidence for bobcat and marsh rabbit should still be sought.

**III. AQUATIC HABITATS**

**NHP Element Species:**

None recorded

**Regionally Rare Species:**

*Centrarchus macropterus*  
*Enneacanthus gloriosus*  
*Etheostoma fusiforme*

**Indicator Guilds:**

**Water Quality Sensitive**

**Species:**  
None recorded

**WO-degradation Tolerant**

**Species:**  
*Cyprinus carpio*  
*Gambusia affinis*  
*holbrooki*

**Invading Species:**

*Cyprinus carpio*  
*Pomoxis annularis*

**Habitat Features:**

**Lotic/Lentic:** Perennial stream with intermittent tributaries; old oxbows are filled with water year-round; abandoned farm pond observed on uplands adjacent to railroad grade.

**Depth/Width:** Waist-deep at normal flow level; 25' to 30' wide

**Flow Rate:** Creek is slow and meandering.

**Water Quality/Clarity:** Usually turbid

**Bank Condition:** Mostly intact

**Insolation:** Channel is wide enough to allow some light penetration.

**Substrate(s):** Sand and silt

**Emergent Vegetation:** None

**Woody Debris:** Moderate amount of logs observed in the channel.

**Other Shelter:** Negligible

**Landscape Features:**

**Stream Classification:** 3<sup>rd</sup> order small river (5-25 m)

**Connections to Other Intact Reaches:** Third Fork Creek enters the New Hope just downstream from NC 54.

**Integrity of Adjoining Forests:** Good

**Threats and Disturbances:**

**DEM Water Quality Ratings:** Poor both Biologically and Chemically (DEM, 1985)

**Sources of Pollution:** Farrington Wastewater Treatment Plant (City of Durham)

**Barriers to Migration:** Jordan Lake downstream; culvert and flood-control structure at Stagecoach Road; bridge crossings at I-40 and NC 54; subimpoundment upstream from NC 54

**Potential for Impoundment, Flow Alteration or Draining:** Hydrology has been significantly altered due to impounding by Jordan Lake, green-tree reservoirs and causeways at I-40 and NC 54; flooding across the entire floodplain appears to be fairly frequent during the winter.

### **Species Records:**

*Castor canadensis* (92-06-18/s)  
*Ondatra zibethicus* (92-06-18/A)  
*Trachemys scripta* (92-06-18/o)  
*Rana clamitans* (92-04-10/o)  
*Rana clamitans* (92-06-18/o)  
*Rana clamitans* (94-02-13/I)  
*Esox americanus* (MENH)  
*Cyprinus carpio* (92-06-18/o)  
*Semotilus atromaculatus* (MENH)

*Erimyzon oblongus* (MENH)  
*Gambusia affinis holbrooki*  
(92-04-10/o)  
*Centrarchus macropterus* (MENH)  
*Pomoxis annularis* (MENH)  
*Enneacanthus gloriosus* (MENH)  
*Lepomis macrochirus* (MENH)  
*Lepomis gibbosus* (MENH)  
*Etheostoma fusiforme* (MENH)

*Dromogomphus spinosus* (92-06-18/o)  
*Epiaeschna heros* (92-06-18/o)  
*Erythemis simplicicollis* (92-06-18/o)  
*Libellula incesta* (92-06-18/o)  
*Libellula vibrans* (92-06-18/o)  
*Pachydiplax longipennis* (92-06-18/o)

### **Additional Survey Needs:**

A survey of both the stream species and swamp/pool species is needed to assess the effects of flooding from Jordan Lake.

**BOTANICAL SURVEY REPORT**

**SITE NAME:** Stagecoach Road Bottomlands (New)

**County:** Durham  
**Quad:** Southwest Durham, Greenlevel  
**Acreage:** 760  
**Province:** Piedmont  
**Significance:** 1 - County  
**Integrity:** 3 - High  
**Landscape Value:** No Special Merit  
**Threat Status:** 2 - Low  
**Ownership:** Corps of Engineers

**Summary List of Special Plant Species:** None known

**Significant Features:** Although flooded from the south when Jordan Lake is above its normal level, the floodplain forest is mostly intact.

**Priorities and Further Investigation Needed:** No extensive plant list exists.

**Reconnaissance Dates:** Cursory visits from 1976 through 1996.

**Surveyors:** Jim and Liz Pullman

**Location:** All of the Corps land south of Stagecoach Road (CR1107) to Chatham County.

**Access to Site:** Park at bridge over creek and walk south if water levels permit, otherwise walk down the old railroad bed just east of the creek.

## Physical and Biological Description

**Slope:** Various

**Grade:** Flat to 10%

**Topo Position:** South of Stagecoach Road along New Hope Creek.

**Elevation:** 220' - 240'

**Hydrology:** Wet

**Watershed:** New Hope Creek - Jordan Lake - Cape Fear River

**Soil:** Chewacla, Wedkahee in floodplain, low slopes mainly White Store sandy loam with smaller of Creedmoor and Mayodan sandy loam and Roanoke and Altavista silt loam.

**Natural Community:** Piedmont Bottomland Forest

**Plant Community Types:** 1. Piedmont Bottomland Forest:  
mixed bottomland hardwoods/  
mixed subcanopy and shrubs/  
sparse mixed herbs and aquatics

**Description of Flora:** See Site Description

### Plant Species List: Stagecoach Road Bottomlands, New

#### CANOPY

*Acer rubrum*  
*Acer saccharum* spp. *floridanum*  
*Betula nigra*  
*Carya* spp.  
*Liquidambar styraciflua*  
*Liriodendron tulipifera*  
*Pinus taeda*  
*Quercus lyrata*  
*Quercus phellos*  
*Quercus michauxii*  
*Ulmus* spp.

#### SUBCANOPY, SHRUBS, VINES

*Arundinaria gigantea*  
*Crataegus viridis*  
*Ilex* spp.  
*Ligustrum sinense*

#### HERBS

*Arisaema triphyllum*  
*Claytonia virginica*  
*Cypripedium acaule*  
*Erythronium umbilicatum*  
*Peltandra virginica*  
*Saururus cernuus*  
*Sagittaria latifolia*  
*Viola primulifolia*